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Farkas & Mandel, LLC
2000 M Street, N.W., 7th Floor
Washington, D.C. 20036

USA Patent App.
Sole or Joint

For inventions made outside USA,
assign(s) without further application

App. No. 62-661 50003
A10 (Class No.)

NONPROVISIONAL

ASSIGNMENT OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

(1) Hans-Dieter Flad	(4) Irina Deinert (married: Eichen-Deinert)
(2) Johannes Gerdas	(5)
(3) Andreas Böhle	() x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT
NAME(S) OF
ASSIGNEE(S)
& ADDRESS(ES)

FORSHUNGSZENTRUM BORSTEL ZENTRUM FÜR MEDIZIN UND BIOWISSENSCHAFTEN
Parkalle 1-40
D-23846
Borstel, Germany

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF
INVENTION

ANITISENSE OLIGONUCLEOTIDES FOR TREATING PROLIFERATING CELLS

for which the undersigned executed an application for Letters Patent of the United States of America:

NOTE --
(Complete
line A, B and/or C)

(A) ☐ even date herewith
(B) ☒ on November 21, 2000
(C) ☐ in U.S. Appl. No. / filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any oaths for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE -- The undersigned hereby authorize(s) Farkas & Mandel, PLLC, of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTOR(S)

DATE SIGNED

WITNESSES

1) _____
Name: Hans-Dieter Flad

2) _____
Name: Johannes Gerdas

3) _____
Name: Andreas Böhle

4) _____
Name: Irina Deinert (married: Eichen-Deinert)

5) _____
Name:

I. Kausch

IF ADDITIONAL INVENTORS, check box ☐ and continue on page 2.

ASSIGNMENT (Continued from page 1)

LISTING OF ADDITIONAL INVENTORS

Please return sig recorded to:

Farkas & Manelli, PLLC
2000 M Street, N.W., 7th Floor
Washington, D.C. 20036USA Patent Appln.
Sole or JointFor Inventions made outside USA
executed with or after application

Atty. Dkt.

62-661

50303

A18

Client Ref.

NONPROVISIONAL

ASSIGNMENT
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

(1) Hans-Dieter Flad	(4) Irina Deinert
(2) Johannes Gerdes	(5)
(3) Andreas Böhle	[] x box if continued on page 2

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ASSIGNEE(S)
& ADDRESS(ES)

FORSHUNGSZENTRUM BORSTEL ZENTRUM FÜR MEDIZIN UND BIOWISSENSCHAFTEN
Parkalle 140
D-23846
Borstel, Germany

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TITLE OF
INVENTION

ANITISENSE OLIGONUCLEOTIDES FOR TREATING PROLIFERATING CELLS

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Complete
line A, B and/or C)(A) ☐ even date herewith(B) ☒ on November 21, 2000(C) ☐ in U.S. Appln. No. / filed

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AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE -- The undersigned hereby authorize(s) Farkas & Manelli, PLLC, of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTOR(S)	DATE SIGNED	WITNESSES
1) <u>H-D. Flad</u> Name: Hans-Dieter Flad	<u>20/02/01</u>	<u>J. Gerdes (J. Gerdes)</u>
2) <u>J. Gerdes</u> Name: Johannes Gerdes	<u>20/02/01</u>	<u>H-D. Flad (H-D. FLA)</u>
3) <u>A. Böhle</u> Name: Andreas Böhle	<u>20/02/01</u>	<u>Ir. Deinert (Ir. Deinert)</u>
4) _____ Name: Irina Deinert	_____	_____
5) _____ Name: _____	_____	_____

IF ADDITIONAL INVENTORS, check box ☐ and continue on page 2.ASSIGNMENT
(Continued from page 1)

LISTING OF ADDITIONAL INVENTORS

DECLARATION / POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

[] Declaration Submitted with Initial Filing or [X] Declaration Submitted after Initial Filing (surcharge 37 CFR 1.16 (c) required)

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the INVENTION ENTITLED "ANTISENSE OLIGONUCLEOTIDES FOR TREATING PROLIFERATING CELLS", the specification of which was filed on November 21, 2000 as Attorney Docket No. 661-50203, which is a U.S. National Phase application of PCT International Application No. PCT/EP99/03451.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 including for continuation-in-part application, material information which becomes available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a) -(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international Application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

PRIOR FOREIGN APPLICATION(S)			Priority Claimed	Certified Copy Attached	
Number	Country	Foreign Filing Date (MM/DD/YYYY)		Yes	No
PCT/EP99/03451		May 20, 1999	Yes		
198 22 954.2	DE	May 22, 1998	Yes		

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the registered practitioners represented by Customer No.: 20736 to prosecute this application and transact all business in the U.S. Patent and Trademark Office in connection therewith. Direct all correspondence to Farkas & Manelli, PLLC at Customer No.: 20736.

- INVENTOR'S SIGNATURE: H. D. Flad Date 20/02/01

Inventor's Name (typed) Hans-Dieter Flad Germany

First DEX Middle Initial DEX Family Name Germany Country of Citizenship

Residence (City) Borsfelde (State) Germany

Post Office Address (Include Zip Code) Parkallee 1, D-23845, Borsfelde, Germany
- INVENTOR'S SIGNATURE: Johannes Date 20/02/01

Inventor's Name (typed) Johannes Gerdes Germany

First DEX Middle Initial DEX Family Name Germany Country of Citizenship

Residence (City) Feldhorst (State) Germany

Post Office Address (Include Zip Code) Steinfeld 79, D-23855, Feldhorst, Germany
- INVENTOR'S SIGNATURE: Andreas Date 20/2/01

Inventor's Name (typed) Andreas Behre Germany

First DEX Middle Initial DEX Family Name Germany Country of Citizenship

Residence (City) Groß Grönau (State) Germany

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- INVENTOR'S SIGNATURE: Inna Date 20/02/01

Inventor's Name (typed) Inna Deinert Germany

First DEX Middle Initial DEX Family Name Germany Country of Citizenship

Residence (City) Lübeck (State) Germany

Post Office Address (Include Zip Code) Ottomwee 12, D-23560, Lübeck, Germany

Declaration Submitted with Initial Filing or (X) Declaration Submitted after Initial Filing (surcharge 37 CFR 1.16 (c) required)

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the INVENTION ENTITLED
"ANTISENSE OLIGONUCLEOTIDES FOR TREATING PROLIFERATING CELLS" the specification of which was filed on
November 21, 2000 as Attorney Docket No. 661-30303, which is a U.S. National Phase application of PCT International Application
No. PCT/EP99/03451.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 including for continuation-in-part application, material information which becomes available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international Application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

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1. INVENTOR'S SIGNATURE: _____ Date _____
Inventor's Name (typed) Hans-Dieter Flad Germany
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Residence (City) Borsdorf (State) Germany
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4. INVENTOR'S SIGNATURE: H. O. K. - D. A. Date 20.02.2001
Inventor's Name (typed) Inga Enchen-Deinert Germany
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Roststraße 43, D-23964 Scharbeutz DE